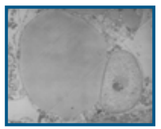
Cell Line 1974–1984

Benjamin Lewin launches *Cell*

Transcription (of hemoglobin) is cell type specific
Groudine
Vol. 3, 243–247



Adipogenesis in vitro
Green
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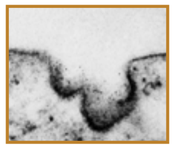
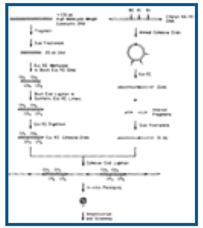


Regulated binding and internalization of LDL is disrupted in hypercholesterolemia
Brown and Goldstein
Vol. 6, 307–316;
Vol. 9, 663–674;
Vol. 10, 351–364

mRNA sequences come from discontinuous gene sequences
Roberts
Vol. 12, 1–8 AC

"This is the first description of an intron! The authors must have jumped for joy when they figured out what they discovered."

First cover in color



DNA cloning: building a library and finding the right gene
Maniatis and Efstratiadis
Vol. 15, 687–701

Transformation of mammalian cells
Axel
Vol. 16, 777–785

V, D, and J regions of Ig genes and somatic hypermutation
Hood
Vol. 19, 981–992

Sequence and structure of mouse mtDNA
Clayton
Vol. 26, 167–180

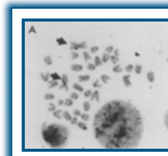
Group I intron splices itself out of rRNA
Cech
Vol. 31, 147–157

Prions
Prusiner
Vol. 35, 57–62 AC

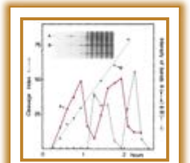
"The discussion of what is the crucial replicative form of PrP aggregates is still ongoing."

The diverse cytoskeletal elements that characterize epithelial cells
Krepler
Vol. 31, 11–24

Identification of and structural insights into the T cell receptor
Reinherz
Vol. 34, 717–726



Identification of and structural insights into the T cell receptor
Mak and Hood
Vol. 37, 1101–1110



Discovery of cyclins
Hunt
Vol. 33, 389–396 AC

Her2/neu is an oncogene
Weinberg
Vol. 28, 865–871

RNA is the catalyst in RNase P
Altman
Vol. 35, 849–857

1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984

Genetic recombination between distinct viruses grown in same cells
Aaronson
Vol. 2, 87–94

Histones are dimeric
Weintraub
Vol. 5, 45–50

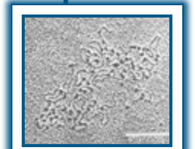
Bacterial plasmid DNA transforms plant cells
Chilton
Vol. 11, 263–272

Src encodes oncogenic kinase
Bishop and Varmus
Vol. 15, 561–572

Yeast genetics uncovers protein secretion pathway
Schekman
Vol. 21, 205–215

Ras is a human oncoprotein
Weinberg
Vol. 29, 161–169

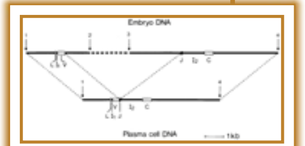
Identification of and structural insights into the T cell receptor
Allison
Vol. 34, 739–746



Visualization and characterization of nucleosomes on DNA
Chambon
Vol. 4, 281–300 AC

"To my knowledge, the term nucleosome is introduced here for the first time."

How viruses might transform cells
Weinberg
Vol. 11, 243–246



The complete immunoglobulin gene
Tonegawa
Vol. 15, 1–14 AC

"…flexibility of the genome within an individual, not just between individuals, was discovered to be part of evolution's toolbox."

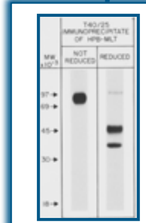
Tyrosines are phosphorylated posttranslationally
Hunter
Vol. 18, 925–933

Role for DNA methylation in gene expression
Jaenisch
Vol. 26, 221–232

Repeated sequences at yeast telomeres
Szostak and Blackburn
Vol. 29, 245–255

DSB repair model for recombination
Szostak, Orr-Weaver, Rothstein, and Stahl
Vol. 33, 25–35

Safe vectors for transgenic plants
Chilton
Vol. 32, 1033–1043



Identification of and structural insights into the T cell receptor function
Kappler and Marrack
Vol. 34, 727–737
Vol. 35, 295–302

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Cell Milestone
AC Annotated Classic
Nobel Prize

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